



Silk Screen Inks

Products Information

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Nylon Ink (NYL)

PROPERTIES

NYL is an easy-to-dry; one/two pack ink suitable for direct printing onto a variety of nylon fabrics. When completely dry, the highly opaque ink film has excellent flexibility, adhesion and wash fastness. To enhance the adhesion, it is recommended that NYL be mixed with the appropriate amount of catalyst (see section on **Catalyst**).

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- NYL can be used without thinning, giving excellent opacity.
- A maximum of 10% Retarder SSG and Thinner 5099 can be used to make the ink dry more slowly when printing in a warm room or when using screens with high mesh counts.
- Cleaner C170 should be used to clean NYL from the screen. For heavy ink stains, Screensolve can be used. Please refer to the relevant P.I. Sheets for more information.

Printing

- NYL can be printed through any type of mesh, but for the best printing results it is recommended that P36-90 to P61-64 be used. For flat bed textile printing with a large number of fibers/unit, P71-55 to P110-34 mesh should be used. This will give finer prints, but the opacity will be reduced.
- NYL inks are suitable for both manual and automatic screen-printing.
- NYL can be printed through a variety of stencils, such as Diazol Universal PU710, Diazol TX600 and Polyzol DE 622
- 1Kg of ink will print an area of 12-16 m² through a P43-80 mesh.
- A snap distance of about 2-3 mm is required for a good release of the print from the screen.
- Apply Spray Way SW82 all over the print table to firmly hold the substrate in place during printing. Due to the wide range of coatings available, it is advisable that the ink be tested fully prior to printing.

Catalyst

To enhance the adhesion, it is recommended that NYL be mixed with catalyst (NYL 073) prior to printing in the following ratio: **NYL Ink: NYE073 = 90:10 (w/w)**. When catalyzed, NYL has a pot life of only eight hours, so it is recommended only the amount required for printing is mixed.

Drying

NYL inks will dry through solvent evaporation. When printed through a P43-80 mesh, they will dry in about 30-60 minutes at room temperature, depending on the ambient temperature. NYL can be dried in about 2 minutes at elevated Temperatures, but should not be dried above 100°C/212°F.

Adhesion and Pre - Production Tests

NYL has excellent flexibility, adhesion and wash fastness when used for printing onto nylon, polyester and some other synthetic fabrics, including some that have been treated for water resistance. However, some waterproofing agents may cause poor adhesion in the short or long term and NYL is recommended - please see **The PI Sheet for NYE Inks** for more information.

NYL can be mixed with Catalyst (NYL 073) to improve the adhesion of the ink. For jobs that do not require high ink film opacity, use NYL 073 to lower the viscosity of the ink, as will penetrate the fabric better, giving better adhesion. Always fully test the ink before beginning a production run, as there is often considerable variation in fabrics from different manufacturers and even between different batches.

Fastness

Uncatalysed NYL has excellent wash fastness to ISO Tests No. 1 and NO. 2 (40°C) and United Kingdom Home Laundering Consultative Council Recommendation No. 5, 6 and 7 (40°C). When catalysed NLG conforms to ISO Tests No. 3 (60°C) and No. 4 (95°C) and has excellent resistance to dry cleaning according to United Kingdom Home Laundering Consultative Council Recommendation No. 2, No. 3 (60°C) and No. 1 (95°C). The ink should be tested for adhesion and resistance to dry cleaning prior to commencing the print run. The printed substrate should be left dry for at least 48 hours before testing.

Solvents

5099	Thinner
SSG13	Fast Retarder
SSG15	Medium Retarder
SSG17	Slow Retarder
S-2961	More slow
C170	Cleaner

STORAGE

NYL inks should be stored in a sealed container between 5-25°C.

SAFETY AND HANDLING

NYL inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses. Inks marked with a (T) contain heavy metals and should not be used for printing items that might be chewed by children.

They are also harmful to the unborn child. All other colors comply with the following standards: EN71 Standard of the European Economic Community, the United Kingdom Toys (Safety) Regulation 1974, Standard of Germany and French Toys. NYL inks are flammable and have a flash point of 55°C/131°F.

NYL catalyst (NYL 073) is flammable and has a flash point of 40°C/104°F.

NYL073 contains isocyanate and should not be used by persons suffering from bronchitis or asthmatics. Whilst working with the ink, the consumption of food and drink, and smoking are not recommended.

ENVIRONMENTAL INFORMATION

NYL Inks:

- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.

TECHNICAL SERVICE AND INFORMATION

For further information or other relevant data, please do not hesitate to contact sabinecolors has a team of well-trained personnel who are ready to give help and advise regarding product information and application.